Amendments to the Claims:

1	1.	(currently amended) A computer-implemented method for establishing a structure of a
2		data item within a computer system, where said data item is an instance of a first class
3		and inherits attributes and methods from said first class, the method comprising the
4		steps of:
5		creating a category object that is an instance of a category class, wherein said category
6		class has one or more attributes; and
7		associating said data item with said category object without associating said category
8		object with all other instances of said first class thereby causing said data item
9		to be associated with a structure that includes storage for values for said one of
10		more attributes of said category class.
1	2.	(original) The method for Claim 1 further comprising the computer-implemented
2		steps of:
3		receiving data that is designated for a particular attribute of said one or more
4		attributes;
5		determining whether said data conforms to rules associated with said particular
6		attribute; and
7		if said data conforms to said rules
8		storing said data as a value into said particular attribute.
1	3.	(currently amended) The method for Claim 2 wherein the steps of receiving,
2		determining and storing are performed by a method in said category class

- 4. (original) The method for Claim 2 wherein said rules are data type rules associated
 with a data type of said particular attribute.
- 1 5. (original) The method for Claim 2 wherein said rules are software rules.
- 1 6. (original) The method for Claim 1 further comprising the step of:
- 2 storing within a database, objects that define said data item and said category object.
- 1 7. (original) The method for Claim 1 further comprising the computer-
- 2 implemented step of:
- 3 maintaining an object relational mapping system that indicates a correlation between
- 4 said data item and data stored in a relational database.
- 1 8. (original) The method for Claim 1 wherein said category class is a user defined
- 2 subclass of a parent category class.
- 1 9. (previously presented) The method for Claim 1 wherein the step of associating said
- data item with said category object further includes the computer-implemented step
- 3 of:
- 4 establishing a pointer from said category object to said data item.
- 1 10. (previously presented) The method for Claim 1 wherein the step of associating said
- data item with said category object further includes the computer-implemented step
- 3 of:
- 4 maintaining a table that includes an entry that indicates that said data item is
- 5 associated with said category.

1	11.	(previously presented) The method for Claim 10 wherein the step of maintaining a
2		table further includes the computer-implemented step of:
3		maintaining said entry to include a key that identifies said category object and a
4		pointer to said category object.
1	12.	(original) The method of Claim 10 for the step of maintaining a table further includes
2		the computer-implemented step of:
3		maintaining said table externally to said data item.
1	13.	(previously presented) The method of Claim 10 wherein the step of maintaining a
2		table further includes the computer-implemented step of:
3		maintaining said table internally to said data item.
1	14.	(previously presented) The method for Claim 1 wherein the step of associating said
2		data item with said category object further includes the computer-implemented step
3		of:
4		storing into said data item a hash table;
5		locating an entry in said hash table for said category object based on data associated
6		with said category object;
7		locating a pointer to said category object in said entry; and
8 .		following said pointer to locate said category object.
1	15.	(original) The method for Claim 14 further comprising the computer-implemented
2		steps of:
3		receiving data that is designated as a key for locating said entry in said hash table;

4		determining whether said data conforms to rules associated with said key; and
5		if said data conforms to said rules
6		using said data as said key to locate said entry.
1	16.	(previously presented) The method for Claim 1 wherein the step of creating a category
2		object further includes the computer-implemented step of:
3		maintaining a table that includes an entry that contains a particular attribute of said
4		one or more attributes.
1	17.	(previously presented) The method for Claim 16 wherein the step of maintaining a
2		table further includes the computer-implemented step of:
3		maintaining said entry to include a key that identifies said particular attribute.
1	18.	(previously presented) The method of Claim 16 wherein the step of maintaining a
2		table further includes the computer-implemented step of:
3		maintaining said table externally to said category object.
1	19.	(previously presented) The method of Claim 16 wherein the step of maintaining a
2		table further includes the computer-implemented step of:
3		maintaining said table internally to said category object.
1	20.	(previously presented) The method for Claim 1 wherein the step of creating a category
2		object further includes the computer-implemented steps of:
3		storing into said category object a hash table; and
4		locating an entry in said hash table for a particular attribute of said one or more
5		attributes.

l	21.	(original) The method for Claim 20 further comprising the computer-implemented
2		steps of:
3		receiving data that is designated as a key for locating said entry in said hash table;
4		determining whether said data conforms to rules associated with said key; and
5		if said data conforms to said rules
5		using said data as said key to locate said entry.
l	22.	(original) The method for Claim 1 further comprising the computer-implemented step
2		of:
3		associating said category object with a second data item that is an instance of a second
4		class, without associating said category object with all other instances of said
5		second class wherein said first class is a different class from said second class.
1	23.	(previously presented) The method for Claim 1 wherein said category class is a first
2		file type and said category object is a first file of said first file type in a file system;
3		wherein said first class is a second file type and said data item is a second file of said
1		second file type in a file system; and
5		wherein the step of associating includes associating said second file with said first file
5		without associating said first file with all other instances of said second file
7		type thereby causing said second file to be associated with said structure in
3		said file system.

1	24.	(currently amended) A computer-implemented method for establishing a structure of a
2		data item within a computer system, where the data item is an instance of a class and
3		inherits attributes and methods from said class, the method comprising the steps of:
4		creating a first category object that is an instance of a first category class, wherein said
5		first category class has one or more;
6		creating a second category object that is an instance of a second category class,
7		wherein said second category class has one or more attributes and is a
8		different class than the first category class;
9		wherein the first category class and the second category class are external to the class
10		lineage of the class of which the data item is an instance; and
11		associating said data item with said first category object and with said second
12		category object thereby causing said data item to be associated with a structure
13		that includes storage for values for said one or more attributes of said first
14		category class and for said one or more attributes of said second category
15		class.
1	25.	(original) The method for Claim 24 further comprising the computer-implemented
2	20.	steps of:
3		receiving data that is designated for a particular attribute of said one or more
4		attributes of said first category class;
5		determining whether said data conforms to rules associated with said particular
6		attribute; and
-	e	if said data conforms to said rules
	-	it and data contorma to and miles

8 storing said data as a value into said particular attribute. 26. 1 (currently amended) The method for Claim 25 wherein the steps of receiving, determining, and storing are performed by a method in said first category class. 2 27. (original) The method for Claim 25 wherein said rules are data type rules associated 1 2 with a data type of said particular attribute. 1 28. (original) The method for Claim 25 wherein said rules are software rules. 1 29. (original) The method for Claim 24 further comprising the step of: 2 storing within a database, objects that define said data item and said first category 3 object. 1 30. (original) The method for Claim 24 further comprising the computer-2 implemented step of: 3 maintaining an object relational mapping system that indicates a correlation between 4 said data item and data stored in a relational database. 1 31. (original) The method for Claim 24 wherein said first category class is a user defined 2 subclass of a parent category class. 1 32. (currently amended) The method for Claim 24 for wherein the step of associating said 2 data item with said first category object further includes the computer-implemented 3 step of: 4 establishing a pointer from said first category object to said data item.

I	33.	(currently amended) The method for Claim 24 tor wherein the step of associating said
2		data item with said first category object further includes the computer-implemented
3		step of:
4		maintaining a table that includes an entry that indicates that said data item is
5		associated with said first category.
1	34.	(currently amended) The method for Claim 33 for wherein the step of maintaining a
2		table further includes the computer-implemented step of:
3		maintaining said entry to include a key that identifies said first category object and a
4		pointer to said first category object.
1	35.	(currently amended) The method of Claim 33 for wherein the step of maintaining a
2		table further includes the computer-implemented step of:
3		maintaining said table externally to said data item.
l	36.	(currently amended) The method of Claim 33 for wherein the step of maintaining a
2		table further includes the computer-implemented step of:
3		maintaining said table internally to said data item.
l	37.	(currently amended) The method for Claim 24 for wherein the step of associating said
2		data item with said first category object further includes the computer-implemented
3		step of:
1		storing into said data item a hash table;
5		locating an entry in said hash table for said first category object based on data
5		associated with said first category object:

- 7 locating a pointer to said first category object in said entry; and
- 8 following said pointer to locate said first category object.
- 1 38. (original) The method for Claim 37 further comprising the computer-implemented
- 2 steps of:
- receiving data that is designated as a key for locating said entry in said hash table;
- 4 determining whether said data conforms to rules associated with said key; and
- 5 if said data conforms to said rules
- 6 using said data as said key to locate said entry.
- 1 39. (currently amended) The method for Claim 24 for wherein the step of creating a first
- 2 category object further includes the computer-implemented step of:
- 3 maintaining a table that includes an entry that contains a particular attribute of said
- 4 one or more attributes of said first category class.
- 1 40. (currently amended) The method for Claim 39 for wherein the step of maintaining a
- 2 table further includes the computer-implemented step of:
- maintaining said entry to include a key that identifies said particular attribute.
- 1 41. (currently amended) The method of Claim 39 for wherein the step of maintaining a
- 2 table further includes the computer-implemented step of:
- 3 maintaining said table externally to said category object.
- 1 42. (currently amended) The method of Claim 39 for wherein the step of maintaining a
- 2 table further includes the computer-implemented step of:
- 3 maintaining said table internally to said category object.

1	43.	(currently amended) The method for Claim 24 for wherein the step of creating a first
2		category object further includes the computer-implemented steps of:
3		storing into said first category object a hash table; and
4		locating an entry in said hash table for a particular attribute of said one or more
5		attributes of said first category class.
1	44.	(original) The method for Claim 43 further comprising the computer-implemented
2		steps of:
3		receiving data that is designated as a key for locating said entry in said hash table;
4		determining whether said data conforms to rules associated with said key; and
5		if said data conforms to said rules
6		using said data as said key to locate said entry.
	45.	(original) The method for Claim 24 wherein said first category class is a first file type
		and said first category object is a first file of said first file type in a file system;
		wherein said second category class is a second file type and said second category object
		is a second file of said second file type in said file system;
		wherein said class is a third file type and said data item is a third file of said third file
		type in said file system; and
		wherein the step of associating includes associating said third file with said first file and
		said second file thereby causing said third file to be associated with said
		structure in said file system that includes storage for values for said one or more
		attributes of said first file type and for said one or more attributes of said second
		file type.